



# HDSHredder 3.6

E a s y . F a s t . S e c u r e !



HDSHredder is the universal tool for high security drive deletion of hard disks and other mass storage media. Drives deleted with HDSHredder are exhausted completely and ultimately. HDSHredder deleted data cannot be restored, even not by using data rescuing software.

## Reusable Media

HDSHredder does not damage storage media! All media remains usable after deletion – unlike magnetic deletion and physical destruction.

## Self-booting or on Windows XP/Vista/Server

HDSHredder can be started either as a self-booting application<sup>1)</sup> or directly under Windows<sup>2)</sup>. On Windows, drives to be deleted can be selected via the usual drive letters. Dynamic volumes, RAIDs, and media requiring special Windows drivers can be deleted, too. The self-booting application even works in absence of any operating system, e.g. on proprietary or damaged systems.

## International Secure Deletion Standards

Standard	Runs	Standard	Runs
VSITR	7	NCSC-TG-025	3
BSI-GSB	3	HMG IS5 (baseline   enhanced)	2   4
ACSI-33	6	GOST P50739-95	2
AFSSI 5020	3	RCMP TSSIT OPS-II	7
AR380-19	3	Bruce Schneier's Method	7
DoD 5200.28M	3	Roy Pfitzner's Method	33
DoD 5220.22M	4	Peter Gutmann's Method	35

## Hardware Requirements 3)

- PC 586 or higher, 90 MHz, 64 MB RAM, VGA
- Keyboard, mouse (optional): Standard, PS/2 or USB (HID)
- bootable floppy disk or CD/DVD drive or USB medium

## Supported Media

- IDE-, ATA-, SATA- and eSATA hard disks (up to 2000 GB)
- CompactFlash via IDE <sup>4)</sup>
- SCSI hard disks
- USB hard disks (internal & external), USB keys <sup>5)</sup>
- SD/MMC <sup>6)</sup>, CompactFlash <sup>6)</sup>, MicroDrive <sup>6)</sup>, xD <sup>6)</sup>, Memory Stick <sup>6)</sup>
- Firewire/IEEE1394 hard disks (internal & external)
- Dynamic Volumes, SAS, RAID and other <sup>7)</sup>

## Supported Controllers <sup>8)</sup>

- PCI IDE controller / Busmaster IDE controller
- SCSI host adapters <sup>9)</sup>
- SATA Controllers with IDE interface, SATA-II controllers with AHCI
- USB 1.1/2.0 controllers with UHCI/OHCI/EHCI
- Firewire/IEEE1394 controllers with OHCI

## Applications from Private to Professional use

HDSHredder offers a cost-efficient solution for every purpose:

- Free Edition (private use only):** Simple and free-of-charge solution for secure drive deletion, especially suited for private use.
- Basic Edition (private use only):** For occasional operation on privately owned computers for high security drive deletion.
- Standard Edition:** For regular application in home and small-office areas, as standardized solution for secure drive data deletion.
- Professional Edition:** Universal professional solution for standardized deletion of mass storage media and creation of a deletion protocol.
- Enterprise Edition:** Efficient mass-deletion for service providers and enterprises. Offers deletion of up to 4, 8, or 16 drives at a time.

A feature overview is to be found at [www.hdshredder.com](http://www.hdshredder.com). The Free Edition contains a **compatibility and speed test** and is available as a free download at <http://www.miray.de/download/sat.hdshredder.html>.

1) SP = self-booting program 2) WP = Windows program 3) WP: the hardware requirements of Windows apply 4) media with TrueIDE support 5) using the USB-Mass-Storage-Class protocol 6) using a card reader (USB/Firewire) 7) WP only 8) WP: all controllers managed by a Windows driver 9) SP: Adaptec SCSI adapters only, see <http://www.miray.de/products/scsicompat.html>



## Deletion Report

HDSHredder can generate a precise deletion report. It confirms (e.g. to a customer) that the deletion has been performed properly.

## Fault Tolerance

HDSHredder uses different strategies to delete defective sectors. Moreover, defective sectors will not obstruct the deletion process.

## Working Modes

- Automatic:** Three preset levels – total ease-of-use, even for laymen.
- Standards:** Offers international deletion security standards. Simply select the desired standard and let HDSHredder do the rest.
- Manual:** Free configurable bit patterns and write cycles with over 2<sup>68</sup> (~ 300 billion billion) combinations for your own security definition.

## User Defined Deletion

HDSHredder offers an editor for deletion patterns. It lets users freely define their own specific deletion procedures with up to 398 runs.

## Areas of Use

- hard disks and other storage media
- single partitions and entire drives
- system installations and data partitions
- media with photo, audio and video recordings
- removing viruses and malware thoroughly and ultimately
- data protection when selling or dumping used media

Edition Overview	Free	Basic	Standard	Professional	Enterprise
Secure rapid deletion	●	●	●	●	●
Highly secure deletion	○	●	●	●	●
International standards	○	○	●	●	●
User defined deletion	○	○	○	●	●
Entire drive deletion	●	●	●	●	●
Single partition deletion	○	●	●	●	●
Security levels	1	3	18	217	217
Speed (hardware based)	up to 6 GB/min and more				90 GB/min
Defined bit-patterns	●	●	●	●	●
Random bit-patterns	○	●	●	●	●
SmartDefectSkip	○	●	●	●	●
Deletion report	○	○	○	●	●
Sector area deletion	○	○	○	●	●
Private use	●	●	●	●	●
Companies/Institutes	○	○	●	●	●
Technician license	○	○	○	●	●